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SCIENTIST ADVANCES HYPOTHESIS. QUANTUM TELEPATHY?  
TELLS THE DOCTOR OF PSYCHOLOGICAL SCIENCES

by

V. N. Pushkin

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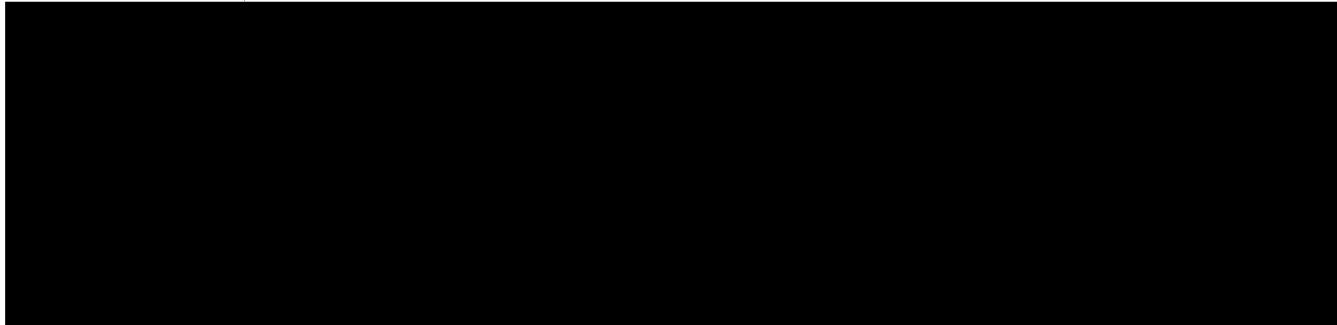
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SOCIALIST INDUSTRY.

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Scientist advances hypothesis. Quantum telepathy? tells the doctor of psychological sciences professor V. N. Pushkin.

Paradox of Einstein - Podolskiy - Rosen.

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Until recently to me it seemed that there is no another such science which would contain so many mysteries and riddles, how much psychology. I even to a certain degree was proud by this mysteriousness and complexity the chosen as me specialty. In this me supported Einstein, whom in 1927 in conversation with children's psychologist Zh. Piaget about perception by the small children space exclaimed: "how psychology more complex the physicists" !

The complexity and the mysteriousness of psychology were presented to me indisputable until I is introduced to one phenomenon of quantum physics.

The specialists explained to me eynshteyna - podol'skiy - Rosen's paradox. According to it, the elementary particles, which possess one and the same quantum properties, turn out to be inseparably bonded with each other. On the positions of quantum mechanics, such particles are one whole. And if we change with the aid of the instruments of the characteristic of one particle, then simultaneously is changed thus another particle. The distance between them plays no role.

Paradox found the completely determined experimental confirmation in noted physicist's experiments Vu. In experiments the separated particles behaved precisely in the manner that was

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predicted: characteristics of one instantly changed during a change in the characteristics of another.

This reaction of the separated particles seems by miracle, but the physicists assert that this surprising reaction, to however wonderful it seemed completely it is placed in the sharp formulas of quantum mechanics.

The psychologist, which allow/assumes the existence of the remote contacts between people (teles-patina), proves to be in more difficult position. Here there are no sharp formulas. But indeed the phenomenon of telepathy is not more miraculously than the phenomenon of the reaction of elementary particles in quantum mechanics !

"LAW COURT OF JURORS".

During August 1972 in Tokyo took place XX the world congress of psychologists. One fact then struck especially - in the compact, elegant published volume of the materials of congress it render/showed report about ... telepathy.

This was the direct/straight disturbance/breakdown of

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traditions. Earlier "telepathic reports" were not included in the agenda of the international psychological congresses. Telepathy was considered as not referring to scientific psychology.

And the thus Japanese psychologists, the masters of the XX world congress, include/connected in description of the report of the director of the laboratory of the sleep of Maymonidskiy medical center in New-York doctor Stanley Krippner.

Than was caused this disturbance/breakdown of traditions? How it did attract S. Krippner's report the Japanese researchers, whose exacting demand and scientific authority highly are estimated in all world? Before how to answer these questions, is necessary briefly to explain the sense of experiments about which it was communicated in report.

The skeletal diagram of S. Krippner's experience consisted in the following. The man to whom had to be made the mental suggestions (in experiments on the telepathy of such people usually they call percipients), they placed on bed in the special chamber in order that it could quietly fall asleep. To head were fastened the electrodes of encephalograph with the aid of which the experimenter, who was being located in another room, could control the special feature/peculiarities of the sleep of tested.

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For mental suggestion was stored the set of the pictures which inductor (that person whom it suggests) it could, select in accidental order.

It is known that the transition from wakefulness to sleep easily can be fixed on the film/strip of the electroencephalograph, which records the bioelectric oscillation/vibrations of brain. With sleeping the usual rhythms of oscillations, characteristic for wakefulness, are changed by slow waves.

Mental vnushcheniya began when completely distinctly designated slow waves, i. e., when percipient it filled. At the torque/moment of experiment especially thoroughly they tracked the encephalogram of percipient. The fact is that the slow waves characterize the sleep, deprived of dreams. When man begins to dream, slow waves they are changed by certain phase of activity. If we in this case wake man and to propose to it to describe seen, he is capable to here describe the parts of dream with sufficient completeness. In S. Krippner's laboratory the story about dream was record/written to magnetic recorder, and it subsequently possible it was to analyze in detail.

The target/purpose of experiments consisted of correlating the

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content of the suggested picture with the content of the dream, described by percipient. This correlation was conducted according to the principle of the "law court of jurors". Accidentally they selected 12 people. To them were proposed picture and story about dream. Each of them had to evaluate the degree of the coincidence of the content of the suggested picture and content of dream in 100 point system.

One hundred percent coincidences virtually were not. However, the estimations which would exceed fifty-percent coincidence, render/showed sufficiently much.

What does mean this incomplete coincidence? To which degree it can be used for the proof of the existence of the direct/straight informational contacts between people? This can be judged from this example. Is suggested the figure in which is depicted the fish. in its story of percipient indicates that in sleep it saw the shore of sea. It goes over the shore of sea and sees, as the fishermen dry grid/networks.

Thus, two informational contents: the figure of fish and the shore of the sea at which are dried fishing grid/networks. Between them common/general/total it is small. And everything after all it cannot be said that between these two informational contents entirely

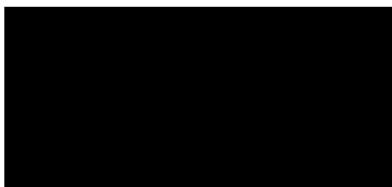
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there is no communication/connection. Man saw in sleep something with the determined mole that bonded precisely with fish, but not with anything by other. See he could everything anything.

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In the investigation of Krippner the majority of series turned out to be successful. They testified to the presence of informational contact, although the percipient literally did not receive that which is transferred, but it realized its semantic processing/treatment.

These lines of seriousness and conclusiveness, which characterize the investigation of S. Krippner, gave bases to the Japanese scientists, who headed the world forum of psychologists in Tokyo, to include/connect work in the agenda of congress.

By speaking about the experiments of S. Krippner's American psychologist, one must not fail to say and about the investigations of Soviet scholarly L. L. Vasiliev, carried out in this same field.

The essential torque/moment, which draws together the investigations of L. L. Vasiliev with S. Krippner's works, is the

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fact that in both cases was utilized one and the same state, disconnecting the consciousness of percipient, sleep. Difference consists only of the fact that in one case (L. L. Vasiliev) occurs the sleep suggested, hypnotic, and in the other case (S. Krippner) suggestion was conducted in the state of natural sleep.

But this difference in this case not as is substantial, main is the very state of sleep. The presence of this state is connected with the fact that the canal, which realizes a transmission of information, is controlled by the deeper levels of brain.

The protocols of the experiments of L. L. Vasiliev, pupil of the greatest expert of V. M. Bekhtereva's nervous system, are read with vast interest. It is characteristic that in its time precisely V. M. Bekhterev "blessed" L. L. Vasiliev to conducting experiments on the explanation of the material basis of mental suggestion.

WE BEGIN MOLECULES.

By whatever but was mysterious or surprising one phenomenon or the other, if it really/actually exists, it can or must be explained materialist. The riddle of the direct/straight bioinformationa

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contacts with its entire complexity is not exception. The matter here somewhat is facilitated by that fact that any information, whatever it was, it takes the material form of existence.

So, are completely material the books, the marks of letters, printed by typographical color/paint, the oscillations of acoustic waves with radio transmission and so on. The development of contemporary biology showed that within living cells there is special matter, which provides the transmission of the information, necessary for a control of vital processes. As this matter of bioinformation are examined, as is known, the molecule of nucleic acids - DNA and the RNA.

Analysis shows that matter not only in molecules as some chemical compounds. Large role, apparently, play the finest biophysical processes, which in these molecules occur. Indeed chemical compounds can be located both in living and in the killed cells. Informational processes are characteristic only to living organisms.

Well, and if in living informational matter they do occur the biophysical processes, which have quantum character/nature? If in different living cells are realized phenomena of the type of laser? For example, electrons from their upper orbits transfer/convert into

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lower. Indeed it is known that during the determined coincidence of the quantum processes between material particles there can be the instantaneous long-range interactions.

If biophysical processes in living cells really/actually bear quantum character/nature, then the direct/straight contact between cells very and is very feasible. But since in this case interacts precisely the matter, bonded with the coding of cellular information, it is possible to assume that under specific conditions from one cell to another is realized the direct drive of information. This reaction will be one-time and independent variable of the distance between cells. This surprising possibility allow/assumes quantum mechanics in that, however, case, if the informational processes, which occur in cell, in reality have quantum nature.

Complexity consists first of all of that in order to demonstrate that the informational processes, which occur in cells, really/actually have as basis quantum physical processes. Some bases for a hypothesis about the quantum nature bioinformational processes are.

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